



**UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET
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09/347,891 07/06/99 JUNG

K Y00-PN0321

EXAMINER

WM01/0118
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LE, L

ART UNIT

PAPER NUMB

2684
DATE MAILED:

01/18/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademark

Office Action Summary

Application No.
09/347,891

Applicant(s)
Jung et al

Examiner
Lana Le

Group Art Unit
2684



☒ Responsive to communication(s) filed on Jul 6, 1999

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 1-3 is/are pending in the applicat

Of the above, claim(s) _____ is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-3 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

☒ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pfundstein (US 6,029,067) in view of Huotari (US 6,044,264).

Regarding claim 1, Pfundstein discloses a method for constructing a WVPN (Wireless Virtual Private Network) for a CDMA system which includes a mobile telephone serviced by a private network group (col 2, lines 51-54), a BTS (Base Transceiver System) for transmitting and receiving a message with the mobile telephone, a BSC(Base Station Controller) for managing the BTS, a MSC (Mobile Switching Center) including a MSA (Mobile Signaling access), a MCC (Mobile Call Control), and a VLR (Visitor Location Register), a HLR (Home Location Register)

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(see fig. 1 & col 2, lines 55 - col 3 line 5). a method for constructing a WVPN for a CDMA system comprising the steps of :

a first step for registering a private network group and extension number to the SCP and judging whether a call by a certain calling subscriber corresponds to an extension number or a MDN (Mobile Directory Number) when a certain calling subscriber calls a certain receiving subscriber of the same group as the calling subscriber (col 4, liens 62-67);

a second step for constructing a mobile communications network using the MDN in the case that as a result of the first step the call by the calling subscriber corresponds to the MDN and constructing a WVPN in the case that the call by the calling subscriber corresponds to the extension number (col 4, lines 62 - col 5 line 4).

However, Pfundstein didn't specifically disclose a SCP (Services Control Point) for storing an extension number with respect to a calling subscriber serviced by a private network group.

Huotari et al discloses a SCP (Services Control Point) for storing an extension number with respect to a calling subscriber serviced by a private network group (col 11, lines 16-21). It would have been obvious to one of ordinary skill in the art at the time the invention was made to add the teaching of Huotari et al to Pfundstein in order to provide a SCP to store the directory number.

Regarding claim 2, Pfundstein discloses the method of claim 1 wherein the second step includes: a first sub-step for requesting a telephone of the calling subscriber to the HLR, transmitting a telephone number and extension number to the SCP with respect to the calling

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subscriber, requesting a MDN information of the receiving subscriber, and judging whether there is a group of the telephone number of the calling subscriber (col 5, lines 30-40);

a second sub-step for judging whether the extension number transmitted to the SCP exists in the group of the calling subscriber in the case that when there is the group of the telephone number the calling subscriber as a result of the judgement of the first sub-step (col 5, liens 43-48); and

a third sub-step for constructing the WVPN by transmitting the MDN corresponding to the receiving extension number to the MCC in the case that the extension number exists in the group of the calling subscriber as a result of the judgement of the second sub-step (col 5, lines 13-21).

Regarding claim 3, Pfundstein discloses the method of claim 2 further comprising a sub-step for transmitting a non-available call connection guide message to the calling subscriber in the case that there is not a group of the telephone number of the calling subscriber as a result of the judgement of the first sub-step and in the case that the extension number exists in the group of the calling subscriber as a result of the judgement of the second sub-step (col 5, lines 9-12).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

-Granberg (US 6,101,382), Transfer of Calling Party Identification in a Mobile Communication System.

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-Liu et al (US 5,949,770), Method for Assigning Feature Sets on Virtual Private Telecommunications Networks.

8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 308-6306 (for formal communications intended for entry)

or:

(703) 308-6296 (for informal or draft communications, please label

“PROPOSED” or “DRAFT”

Hand-delivered responses should be brought to the Crystal Park II, 2021 Crystal Drive, Arlington VA, Sixth Floor (Receptionist).

Any inquiry concerning this communication or communications from the examiner should be directed to Lana Le whose telephone number is (703) 308-5836 and to the supervisory patent examiner Daniel Hunter whose telephone number is (703) 308-6732.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

With Regards,

Lana Le

January 3, 2000



DANIEL HUNTER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800